

## HIGHLY EFFICIENT DELIVERY OF A LARGE THERAPEUTIC MASS AEROSOL

## ABSTRACT OF THE DISCLOSURE

A method for delivering a therapeutic dose of a bioactive agent to the pulmonary system, in a single, breath-activated step, comprises administering from a receptacle  
5 enclosing a mass of particles, to a subject's respiratory tract, particles which have a tap density of less than  $0.4 \text{ g/cm}^3$  and deliver at least about 50% of the mass of particles.  
Another method of delivering a therapeutic dose of a bioactive agent to the pulmonary system, in a single breath, includes administering from a receptacle enclosing a mass of particles, to a subject's respiratory tract, particles which have a tap density of at least  $0.4$   
10  $\text{g/cm}^3$  and deliver at least about 10 milligrams of the bioactive agent. The receptacle can have a volume of at least  $0.37 \text{ cm}^3$ .